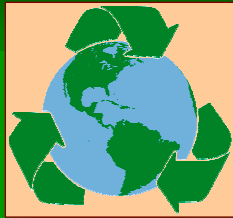




earthscapes

(423) 265-9900

www.earthscapesmulch.com



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We are an environmental company that uses locally recycled organic material and effective technology to perform

- erosion control
- storm water management
- soil and water conservation
- landscape beautification



We Focus On 4 Market Areas

➤ Construction Water Quality

- Filter Sock, Geo Textiles, Terra & Hydro Seeding, Inspection & Consulting

➤ Soil & Water Remediation

- Landfill Caps, Flocculent Additives, Bio Stimulation & Augmentation

➤ Green Solutions

- Eco Paving, Green Roofs, Bank Reclamation, Living Walls, Seeding, Above Ground Ponds, Raised Gardens, Mulch, Compost and Soil Mixes

➤ Wholesale Organics

- Bulk & Bagged – Mulch, Compost, Soil Mixes



Marketplace Trends

- Soil and water conservation has become one of the largest problems facing our planet
- Due to EPA laws, regulators have gained tremendous power over all aspects of construction
- Organic wastes (wood and leaf) can no longer be burned or dumped in landfills
- Increased ecological awareness and rising raw materials costs are leading to a preference for “green” building and landscaping methods



Blower Truck Technology



Hawthorne Wood & Compost Recycle Center



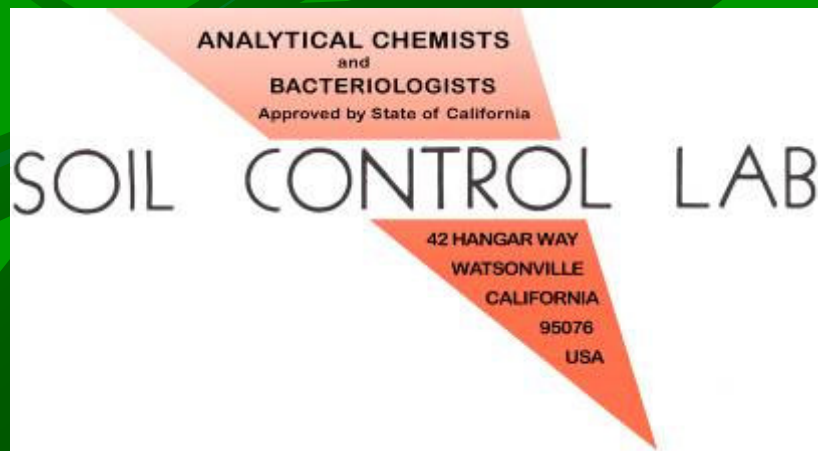


Filter Soxx





Earthscapes Filter Media



Certified, Tested, Proven

Filter Soxx

The Superior Silt Fence Replacement



A recycled 100% organic filtration medium traps silt and other contaminants inside the socks



Little Impact for Sensitive Sites means erosion control anywhere



Keeps the Entire Site in Phase II Compliance





Filtrex International, LLC
35481 Grafton Eastern Rd
Grafton, OH 44044
440-926-2607
440-926-4021 (fax)

www.filtrex.com info@filtrex.com

Certified Filtrex

Test Parameters

Material Tested/Specification Standard	Date	Meets Filter Media Spec	Flow Through Rate ¹ gal/min/ft.	Total solids > 63um (g/L) ²	TSS removal <63 um (g/L) ³	Turbidity Reduction (NTU) ⁴	Nutrient Concentration (mg/L) Reduction - %					Motor Oil Conc. (mg/L) Removal	Salt (EC) (umhos/cm) Reduction
							NO ₃ -N ₅	NH ₄ -N ₆	Total N ₇	Reactive P ₈	Total P ₉		
Filtrex FilterMedia™		Y/N		%	%	%						%	%
Target Value (Spec)		YES	10	10	10	10	10	10	10	10	10	10	10
Test#1	5/25/2006	Y		97	67	47		15	25	11		92	
Test#2													
Test#3													

Filtrex Certified Filter Media Products meet or Exceed Standards/Specifications from the Following Agencies*

USEPA AASHTO FHWA USDA
USACE ORDEQ MEDEP
TCEQ CONEG USOC
MNDOT NYSDOT GDOT IDOT
MSH TXDOT MEDOT INDOT
PADEP OEPA TDOT VTDOT

*Notes: also filtered calcium, iron, copper, magnesium, manganese, and zinc from storm runoff

Meets US EPA 503 Metal Compliance? YES

Installed By:
Earthscapes, LLC

Reviewed By:
Title:

Dr. Britt Faucette, Ecologist
Director of Research



¹Flow through rate is the volume of water that passes through a permeable object in a given time period. Flow through rate helps determine stormwater design capacity of a BMP.

²Total solids (TS) in runoff water was measured as the concentration of solids > 63um. Reducing TS in runoff before it reaches surface water can reduce sedimentation which impairs water quality - sedimentation is the leading cause of non-point source water pollution in the US.

³Total suspended solids (TSS) is the fraction of eroded sediment that is small enough to remain suspended in water (<63 um - typically clay and silt). TSS typically reduces the ability of light to penetrate water which reduces aquatic life. TSS is the most difficult fraction of sediment in water to remove.

⁴Turbidity is measured as the amount of light reflected from particles in water. The cloudier the water, the higher the turbidity, and greater the potential for water quality impairment.

⁵Nitrate Nitrogen in water can be toxic to humans and can cause eutrophication (algae blooms) of surface water. The USEPA safe drinking water limit for nitrate-N is 10 mg/L.

⁶Ammonium Nitrogen in water is immediately bioavailable to aquatic plants and can cause eutrophication, reduced dissolved oxygen in water, and loss of aquatic life.

⁷Total Nitrogen is the combination of nitrate-N + ammonium-N + organic N (organic N is the nitrogen fraction of plant or animal material and is not immediately available to aquatic plants).

⁸Reactive Phosphorus is the amount of P in water that is mostly not bound to sediment/particulates/organic matter and a majority is immediately available to aquatic plants. Reactive P in water is one of the leading causes of eutrophication and water quality impairment.

⁹Total Phosphorus is the combination of dissolved P (mostly reactive) + particulate/organic P (particulate P is phosphorus that is bound/attached to sediment or other metals and organic P is phosphorus that is part of a living or dead organism; generally neither are immediately available to aquatic plants).

**Maximum total P concentrations for wastewater treatment plant discharges is 5 mg L⁻¹, the critical concentration of total P in streams at which eutrophication is triggered is 0.10 mg L⁻¹, and 0.03 mg L⁻¹ for dissolved P.



Ditch Checks



Concrete Washouts



Filter Cells



Sediment Traps



Stream Bank Reclamation



Pond Bank Stabilization



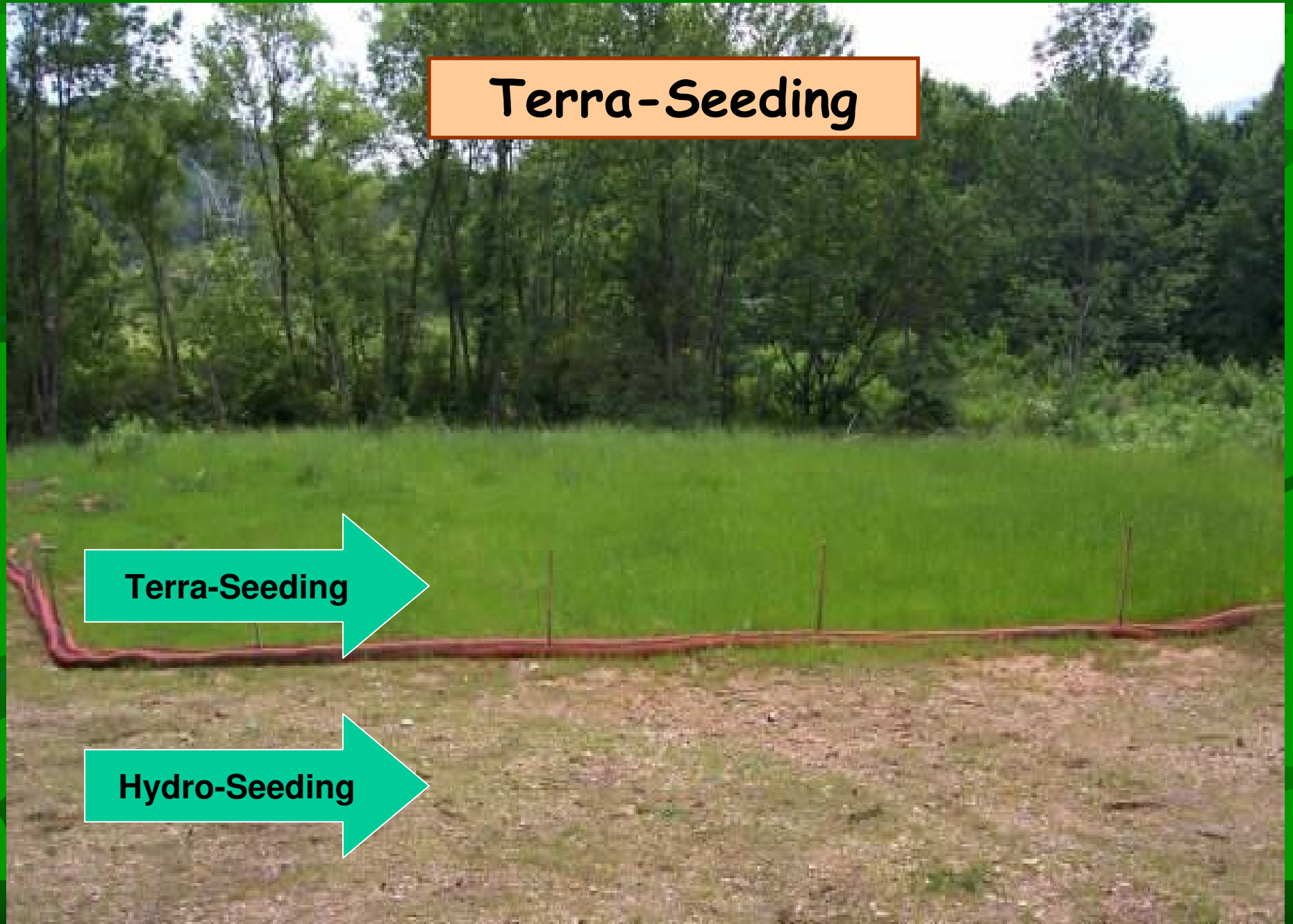
Living Walls



Terra-Seeding

Terra-Seeding

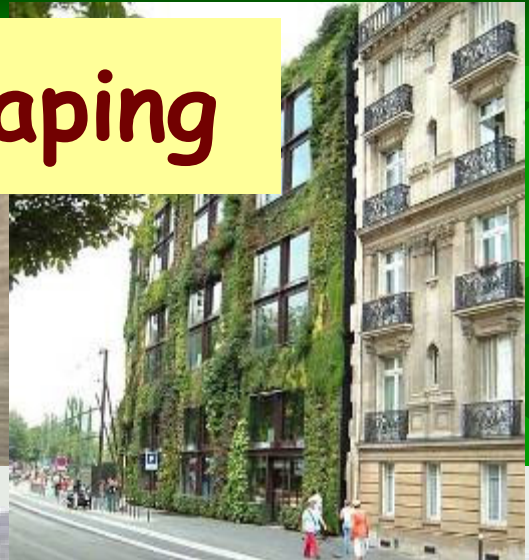
Hydro-Seeding



Riprap Greenscaping



Roof Greenscaping





**greenroofs do not need to be flat
and now you can walk on it**



**E^{co}
Grid**



is the answer!



Eco Paving

**Better than
100% pervious**



**Drastically Reduces
Soil Compaction**



32 tons per sq ft

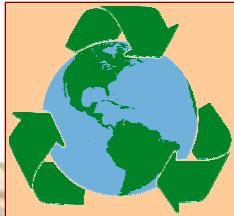


Raised Gardens & Ponds



Mulch, Compost & Playground Chips





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Bank
Reclamation



Living
Wall



Roof
Greenscape



Eco Paving



Filter Sock
Erosion Control